ISIS - Bug #1928

campt - North Azimuth incorrect at pixel 1,1 on HiRise CCD images

2013-12-12 10:26 AM - Tammy Becker

Status:	Closed		
Priority:	Normal		
Assignee:	Makayla Shepherd		
Category:	Applications		
Target version:	3.4.13 (FY16 R3 2016-08-31 Aug)		
Impact:	no impact	**Software Version:**	

Description

https://isis.astrogeology.usgs.gov/IsisSupport/index.php/topic,3801.0.html
Hi,

campt is sometimes reporting an incorrect value of 180.0 for the North Azimuth for HiRISE individual CCD images. I am running campt on the RED5 balance .cub, which I ran spiceinit on first. Previously campt has reported different values (~95-98 is typical, and correct), which were stored in our HiCat database during processing. Here is an example:

In HiCat, the north azimuth is 96:

```
[127.0.0.1:HiRISE] > select NORTH_AZIMUTH from Observation_Geometry where OBSERVATION_ID = 'ESP_016610_1725';
+---------------+
| NORTH_AZIMUTH |
+---------------+
|       96.8308 |
+---------------+
1 row in set (0.09 sec)
```

But campt gives 180

Update: I was looking at line=1, sample=1. Other line/samples give better values (close to ~97 degrees, as expected). Is there something wrong with this one pixel? Running campt with allowoutside=FALSE doesn't return an error, so it seems like it's a valid pixel.

Hi Ingrid,

The line=1, sample=1 suggests a potential issue with the software attempting to refer to surrounding pixels for a solution, according to our developers.
I will post this on our internal tracking system. I will also notify Ken and Paul.

Thank you for reporting this.

**Note: Ingrid's post on isis-support supplies a list of CCD image filenames that she is working with.

Related issues:

Related to ISIS - Bug #1659: campt - reporting different values for even/odd ...	**Closed**	**2013-05-20**

History

#1 - 2016-03-24 02:59 PM - Stuart Sides

- Category set to Applications

- Status changed from Acknowledged to Assigned

- Assignee set to Makayla Shepherd

- Target version set to 3.4.13 (FY16 R3 2016-08-31 Aug)

#2 - 2016-03-25 04:40 PM - Makayla Shepherd

- Status changed from Assigned to Resolved

- Impact updated

I downloaded some of the images that the external support post had listed and I could not reproduce the issue.

I believe that it was fixed in ticket [#1659](), under revision #5690, which was put into ISIS version 3.4.8

#3 - 2016-03-29 04:30 PM - Makayla Shepherd

- Related to Bug #1659: campt - reporting different values for even/odd level1 Themis imagery added

#4 - 2016-04-04 05:19 PM - Tammy Becker

- Status changed from Resolved to Closed